

## **ABSTRACT**

### **A METHOD OF MANUFACTURING FLEXIBLE MAGNETIC TAPE**

A method of manufacturing flexible magnetic tape having a permanently structured magnetic characteristic which varies from place to place in two different directions in the plane of the tape, includes:- a) coating a flexible substrate with a slurry having anisotropic magnetic particles; b) moving the substrate and slurry coating relative to a first magnetic field having a field strength which varies with time in a first direction, thereby selectively orienting the particles in areas spaced apart in a first direction; c) subsequently moving the substrate and slurry coating relative to a second magnetic field having a field strength which varies with time in a second direction making an oblique angle with the first direction, such that the magnetic particles are selectively oriented in spaced areas in both the first and further directions, and d) solidifying the slurry to fix the particles in place.